[0053] **FIG. 37** is an enlarged front view of the portable wireless telephone set in the close state.

[0054] **FIG. 38** is a diagram showing a portable terminal device according to the present invention with **FIG. 39**, and is a perspective view in an open state.

[0055] **FIG. 39** is a perspective view showing a close state.

[0056] **FIG. 40** is an illustration to show problems in the use of a conventional portable wireless telephone set with **FIG. 41**, and is an illustration showing the state where the first housing has gotten apart from user's ear.

[0057] **FIG. 41** is an illustration to show the state where the second housing has gotten apart from user's mouth.

[0058] **FIG. 42** is a diagram showing another conventional portable wireless telephone set with **FIG. 43**, and is a perspective view showing an open state.

[0059] **FIG. 43** is a perspective view showing a close state.

[0060] **FIG. 44** is a conceptual view showing one of conventional problems.

BEST MODE FOR CARRYING OUT THE INVENTION

[0061] An embodiment of the present invention will be described in detail with reference to the accompanying drawings. Note that, each embodiment shown in below is that the present invention has been applied to a portable wireless telephone set.

[0062] First, the concept of the present invention will be described (see **FIGS. 1 and 2**).

[0063] A portable wireless telephone set **1** is formed by that a first housing **2** and a second housing **3** are connected via a hinge shaft **4** turnably to the shaftwise direction. In the first housing **2**, at one end part of one surface **2***a*, a positional locating concave part **6** is formed, and at the other end part of one surface **2***a*, a microphone part **5** is provided. At the other end part of one surface **3***a* of the second housing **3**, a speaker part **7** is provided.

[0064] In the first housing **2** and the second housing **3**, the respective one end parts are connected via the hinge shaft **4**, and the said hinge shaft **4** is designed to be always tilted to the first housing **2**.

[0065] When communication is not performed with the portable wireless telephone set **1**, one surface **2***a* of the first housing **2** is covered with the second housing **3**, and the portable wireless telephone set **1** is in a close state (see **FIG. 2**). In the close state, in the second housing **3**, the other surface **3***b* that is the opposite surface to one surface **3***a* contacts with or is closing to one surface **2***a* of the first housing **2**.

[0066] When communication is performed with the portable wireless telephone set **1**, the first housing **2** or the second housing **3** is turned to the second housing **3** or the first housing **2** to the shaftwise direction of the hinge shaft **4**, and the portable wireless telephone set **1** is opened (see **FIG. 1**). The second housing **3** is designed to be tiltable to the hinge shaft **4**, so that in the open state, one end part of the second housing **3** is located on the locating concave part **6** of the first housing **2**: the second housing **3** is tilted to the first housing **2**.

[0067] Therefore, in the open state, a first connection line L1 connecting the microphone part **5** of the first housing **2** with the hinge shaft **4** will be set to a predetermined angle θ less than 180° to a second connection line L2 connecting the speaker part **7** of the second housing **3** with the hinge shaft **4** (see **FIG. 1**).

[0068] In this manner, in the open state, by tilting the second housing **3** to the first housing **2** at the specified angle, the portable wireless telephone set **1** becomes the shape along the outline of the caller's face when the caller performs communication, and it can get the microphone part **5** close to the caller's mouth and can get the speaker part **7** close to the caller's ear: the usability in communication can be improved.

[0069] Moreover, it is unnecessary that the part having the microphone part **5** in the first housing **2** or the part having the speaker part **7** in the second housing **3** is projected, and in the close state, one surface **2***a* of the first housing **2** contacts with or is closing to the other surface **3***b* of the second housing **3**: the miniaturization of the portable wireless telephone set **1** can be achieved.

[0070] Next, each suitable embodiment according to the present invention will be described.

[0071] A first embodiment will be described (see FIGS. **3** to **24**).

[0072] A portable wireless telephone set **10** is formed by that in the state where one end part of a first housing **11** and one end part of a second housing **12** are overlapped in the shaft direction of a hinge shaft **13**, the first housing **11** and the second housing **12** are mutually turnably connected via the said hinge shaft **13** (see FIGS. **3** to **7**).

[0073] At one end part of one surface **11***a*, a shallow concave part **15** in an almost spherical form is formed, and at the other end part on one surface **11***a* of the first housing **11**, a microphone part **14** is provided. On one surface **11***a* of the first housing **11**, operation keys **16***s* are regularly arranged, and a main operating part **17** is formed by the said operation keys **16***s*.

[0074] On one surface **11***a* of the first housing **11**, projections **18***s* are provided at mutually separated positions.

[0075] One end part of the first housing **11** is formed as a slope **11***c* so that as a position gets apart from the microphone part **14**, one surface **11***a* gets apart from the other surface **11***b* being the opposite surface to one surface **11***a* (see FIGS. **6** to **9**). The said concave part **15** is formed on the slope **11***c*.

[0076] On the slope **11***c* of the first housing **11**, a supporting hole **19** is formed (see **FIG. 9**).

[0077] On the other end part on one surface **12***a* of the second housing **12**, a speaker part **20** is provided (see FIGS. **3** to **7**, and **11**). At one end part of one surface **12***a* of the second housing **12**, keys **21***s* are arranged, and a suboperating part **22** is formed by the said keys **21***s*. On one surface **12***a* of the second housing **12**, a display part **23** being a liquid crystal display is provided between the speaker part **20** and the suboperating part **22**.